EXMILIT A POSIUL PAGE

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd

OM protein - protein search, using sw model

March 30, 2005, 19:30:30 ; Search time 72 Seconds (without alignments) 886.326 Million cell updates/sec Run on:

Title: Perfect score:

US-09-786-867C-5 893 1 MTTASISQVRQNYHQDSEAA......PRRRKRPHSIPTPILIFRSP 165 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

2105692 seqs, 386760381 residues Searched:

Total number of hits satisfying chosen parameters:

2105692

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

genesequ1990s:\* geneseqp200s:\* geneseqp201s:\* geneseqp203s:\* geneseqp203s:\* A\_Geneseq\_16Dec04:\* .: geneseqp1980s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp20048:\*

Score 615.5	Result		* Ouerv			SUMMARIES	
1         881         98.7         165         3         AAY53271         AAY532744         AAY53244         AAY543249         AAY543244	Š.	Score	Match	Length	DB	di.	Description
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580.5         65.0         180         5         ABP69305         Abp68305         Human           580.5         65.0         182         4         AAU27741         Aau17741         Aau17741         Aau17741         Aau17741         Aau17741         Aau17741         Aau17741         Aau177741         Aau17741         Aau177741         Aau177744         Aau17777         Aau1777         Aau177	13	610.5	68.4	183	7	ADN31067	
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580.5         65.0         227         6         ABU11456         Abu11456         Human           579         64.8         165         8         ABM81021         Abm81021         Abm81021         Abm81021         Abm81021         Abm81021         Abm801021         Abm801021 <td>15</td> <td>580.5</td> <td>65.0</td> <td>182</td> <td>4</td> <td>AAU27741</td> <td>Mouse</td>	15	580.5	65.0	182	4	AAU27741	Mouse
579         64.8         165         8 ABW81021         Abm81021         Tumous           540         60.5         148         4 AA004400         Aao04400         Human           523.5         58.6         127         5 ABG32428         Abg324274         Abm81021           477         53.4         173         4 AAE09630         Aae09530         Human           477         53.4         173         7 ADG62935         Adg65935         Novel           424.5         47.5         146         8 ABM80023         Abm80662         Tumous           421.5         47.2         373         8 ABM80733         Abm80732         Tumous           421         47.1         621         4 ABG28304         Abg28804         Novel	16	580.5	65.0	227	9	ABU11456	
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494 55.3 242 5 ABG32428 Abg32428 Humann 477 53.4 173 4 AAE09630 Aae09630 Humann 477 53.4 173 7 ADG62935 Adg62935 Adg62935 Novel 424.5 47.5 146 8 ABM80063 Abm800723 Tumous 421.5 47.1 621 4 ABG28304 Abg28304 Abg28304 Novel	19	523.5	58.6	127	Ŋ	ABP42274	Human
477     53.4     173     4     AAE09630     Aae09630 Human       477     53.4     173     7     ADG62935     Adg62935 Novel       424.5     47.5     146     8     ABM80602     Abm80602 Tumous       421.6     47.2     37.3     8     ABM80723     Abm80723     Abm80723 Tumous       421     47.1     621     4     ABG28304     Abg28304 Novel	70	494	55.3	242	ហ	ABG32428	Human
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4 421.5 47.2 373 8 ABM80723 Abm80723 Tumous 5 421 47.1 621 4 ABG28304 Abg28304 Novel	53	424.5	47.5	146	œ	ABM80602	-
21 47.1 621 4 ABG28304 Abg28304 Novel	54	421.5	47.2	373	80	ABM80723	
	25	421	47.1	621	4	ABG28304	Novel

Abg21478 Novel hum Aau07990 Polypepti Adg4955 Cancer-as Abg12068 Novel hum Abg07849 Novel hum Abd07849 Novel hum Abd27400 Novel hum Abg27400 Novel hum Abd2177 Human met Abg27401 Human nov Add1991 Human nov Add1991 Human nov Abd59653 Amino aci Abc59224 Human gen Abg27399 Novel hum Abg27399 Novel hum Abg17463 Human aci Abc58474 Lung canc Abc58474 Lung canc Abc61278 Human MDD Abr64209 Angiogene	
ABG21478 AAU07890 AAU07890 ADG84955 ABG12069 ABG07849 ABG27400 ABG27400 ABG27400 ABG27399 AAGG77463 AAU07889 AABE6474 ABF1378	
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27 1893 1993 1109 1109 1109 1109 1109 1109	
44444444444444444444444444444444444444	
16.5 3999. 3999. 3999. 3999. 3990.	
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## ALIGNMENTS

RESULT 1

AAYS3271 standard; protein; 165 AA.

AAY53271;

20-JUL-2000 (first entry)

Human; oncofoetal ferritin 1; OFF1; ferritin; transplantation; pathological pregnancy; breast cancer; cytostatic; immunosuppressive; contraceptive; abortive; nootropic; vaccine; immunisation; cancer; transplant rejection, autoimmune disease; fertilisation; diagnosis; in vitro fertilization; lyf; heptablastoma; Hodgkin's lymphoma; leukaemia; non-Hodgkin's lymphoma; embryonal tumour; Down's Syndrome; spontaneous abortion; miscarriage; premature contraction; toxaemia; Human oncofoetal ferritin 1 protein sequence.

Homo sapiens

premature delivery

WO200015788-A2.

23-MAR-2000.

99WO-IL000485. 08-SEP-1999;

98IL-00126181. 11-SEP-1998; (GARD-) GARDINO INVESTMENT NV.

Moroz C;

WPI; 2000-271427/23. N-PSDB; AAA13647 DNA sequence coding for oncofetal ferritin 1 protein, useful for immunizatons against breast cancer, for enhancing fertilization rates during in vitro fertilization treatment and for use as a growth factor of bone-marrow progenitor cells.

Example 7; Fig 5; 66pp; English.

The present sequence represents the human oncofetal ferritin 1 (OFF1) protein. OFF1 has cytostatic, immunosuppressive, contraceptive, abortive and noctropic activities, and can be used as a vaccine. Compositions comprising the expression extor containing an OFF1 coding sequence, and the OFF1 protein, are useful: (a) for immunisations against cancer,

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especially breast cancer; (b) in the treatment of transplant rejections, autoimmune diseases, pathological pregnancies; (c) for enhancing fertilisation rates during in vitro fertilisation. (IVP) treatment; and (d) for use as a growth feotor of bone-marrow progenitor cells such as granulocyte monocytes. The OFFI nucleotide sequence is useful for disgnosing cancer such as breast cancer, heptablastoma, leukaemia, Hodgkin's and non-Hodgkin's Hymphomas and embryonal tumours, Down's Syndrome, and pathological pregnancies such as spontaneous abortion and miscarriage, premature contractions, toxaemia or premature delivery
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Sequence 165 AA;

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                                                                                 HEERQHAEKLAMKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVNQSLLEFPS 120
                                                                                                MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS
                              Gaps
                             ö
       Length 165;
                                                                                                                          PISPSPSCWHHYTTNRPQPQHHLLRPRRRKRPHSIPTPILIFRSP 165
                                                                                                                                      1; Indels
     Score 881; DB 3;
Pred. No. 6.4e-90;
1; Mismatches 1.
    98.7%;
98.8%;
Query Match
Best Local Similarity 98.8
Matches 163; Conservative
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RESULT 2 AAR71567

AAR71567 standard; protein; 183 AA.

AAR71567;

(first entry) 01-NOV-1995

Human monocyte growth factor.

cancer cell line; Monocyte growth factor; human; lung; cellular immune function; macrophage.

Homo sapiens

JP07031482-A.

03-FEB-1995.

93JP-00200129 21-JUL-1993; 93JP-00200129 21-JUL-1993;

(LIFE-) ZH LIFE TECHNOLOGY KENKYUSHO.

WPI; 1995-109536/15. N-PSDB; AAQ85979.

DNA - useful for Recombinant human monocyte growth factor and its coding stimulation of cellular immune function and macrophage. Claim 1; Page 2; 12pp; Japanese.

The amino acid sequence of a novel monocyte growth factor. The protein was isolated from a human lung cancer cell line, T3M-30Lu (FERM BF3120). The sequence of the procein was determined by amino acid sequencing following cleavage of the purfiled protein by V8 protease. The gene encoding this protein can be used to produce recombinant monocyte growth factor which can be used for stimulation of cellular immune function and 

Sequence 183 AA;

68.9%; Score 615.5;

Query Match

Length 183;

DB 2;

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                                                                                     HEERQHABKLAKLONQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVNQSLLEFPS 120
                                                                                                    MITASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFBRDDVALKNFAKYFLHQS 60
                                                                                                                                                                                                                                                                                                     Human; shear stress-response protein; vascular disease; arteriosclerosis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 HERREHAEKLAKLONGRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKOVVOSLLEL-- 118
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                                         1 MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS
                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sakurada K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MITASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               encoded by them and antibodies against them treatment of vascular disease caused by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides the protein and coding sequences of a number of human shear stress response proteins. These are useful in diagnosis, treatment and screening of vascular diseases caused by arteriosclerosis, including heart failure, post-PTCA restenosis and
                        13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13;
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Pred. No. 3.7e-60;
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                                                                                                                                                                                                                                                                               Human shear stress-response protein SEQ ID NO: 108.
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Pred. No. 3.7e-60;
3; Mismatches 6;
                      3; Mismatches
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Sugano S;
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                                                                                                                                                | |: | ||
-------HKLATDKNDP--HL 130
                                                                                                                                 121 PISPSPSCWHHYTTNRPOPOHHL 143
                                                                                                                                                                                                             AAB90804 standard; protein; 183 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            H, Obayashi
Nakamura Y,
         84.6%;
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ilarity 84.6%;
Conservative
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         Similarity 84.6
21, Conservative
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useful in diagnosis and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-266308/27.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB; AAH02927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    arteriosclerosis.
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                                                                                                                                                                                                                                                                                                                                                   WO200125427-A1
                 121;
                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-1999;
                                                                                                                                                                                                                                                          15-JUN-2001
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Matches 121;
                                                                                      61
                                                                                                           61
                                                                                                                                                       119
                                                                                                                                                                                                                                    AAB90804;
        Best Local
Matches 12
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